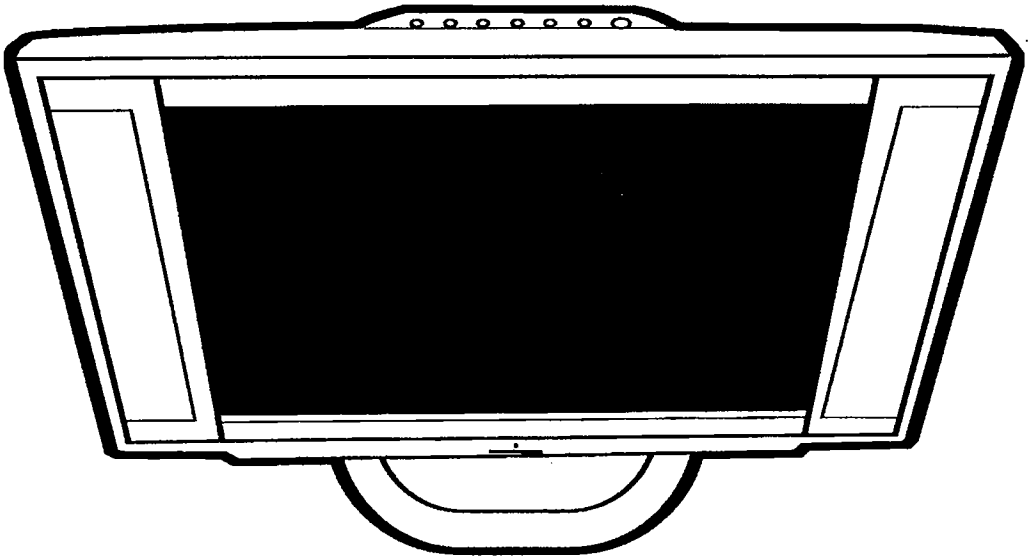
Memorex® Sears

17" LCD TELEVISION

MT1701
71264



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IMPORTANT SERVICE SAFETY INFORMATION

Operating the television outside of its cabinet or with its back re-moved involves a shock hazard. Work on these models should only be performed by those who are thoroughly familiar with pre-cautions necessary when working on high voltage equipment.

Exercise care when servicing the chassis with power applied. Many B plus and high voltage RF terminals are exposed which, if carelessly contacted, can cause serious shock or result in damage to the chassis. Maintain interconnecting ground lead connections between chassis, escutcheon, picture tube dag and tuner cluster when operating the chassis.

These televisions have a "polarized" AC line cord. The AC plug is designed to fit into standard AC outlets in one direction only. The wide blade connects to the "ground side" and the narrow blade connects to the "hot side" of the AC line. This assures that the television is properly grounded to the house wiring. If an extension cord must be used, make sure it is of the "polarized" type.

Since the chassis of this television is connected to one side of the AC supply during operation, service should not be attempted by anyone not familiar with the precautions necessary when working on these types of equipment.

When it is necessary to make measurements or tests with AC power applied to the television chassis, an Isolation Transformer must be used as a safety precaution and to prevent possible damage to transistors. The Isolation Transformer should be connected between the television line cord plug and the AC power outlet.

Certain HV failures can increase X-ray radiation. The television should not be operated with HV levels exceeding the specified rating for their chassis type. The maximum operating HV specified for the chassis used in this television is 11KV ±1KV at zero beam current with a line voltage of 120V AC. Higher voltage may also increase the possibility of failure in the HV supply.

It is important to maintain specified values of all components in the horizontal and high voltage circuits and anywhere else in the television that could cause a rise in high voltage or operating supply voltages. No changes should be made to the original design of the television.

Components shown in the shaded areas on the schematic diagram and/or identified by a ⚠ in the replacement parts list should be replaced only with exact factory-recommended replacement parts. The use of unauthorized substitute parts may create shock, fire, X-ray radiation or other hazards.

To determine the presence of high voltage use an accurate high impedance HV meter connected between the second anode lead and the CRT dag grounding device. When servicing the High Voltage System remove static charges from it by connecting a 10k Ohm resistor in series with an insulated wire (such as a test probe) between the picture tube dag and the 2nd anode lead (have the AC line cord disconnected from the AC supply).

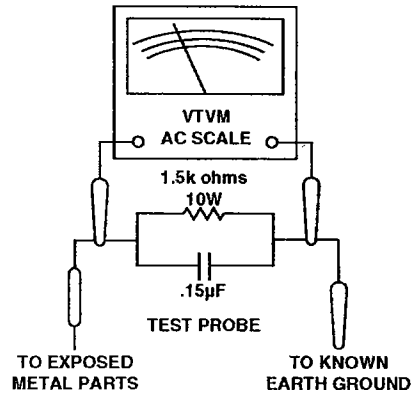
The picture tube used in this television employs integral implosion protection. Replace with a tube of the same type number for continued safety. Do not lift the picture tube by the neck. Handle the picture tube only when wearing shatterproof goggles and after discharging the high voltage completely. Keep others without shatterproof goggles away.
When removing springs or spring mounted parts from the chassis, shatterproof goggles must be worn. Keep others without shatterproof goggles away.

Before returning the monitor to the user, perform the following safety checks:

Plug the AC line cord directly into a 120V AC receptacle. (Do not use an Isolation Transformer during these checks.) All checks must be repeated with the AC line cord plug connection reversed. (If necessary a nonpolarized adapter plug must be used only for the purpose of completing these checks.)

1. Inspect all lead dress to make certain that leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the television.
2. Replace all protective devices such as non-metallic control knobs, insulating fishpapers, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacitor networks, mechanical insulators, etc.
3. To be sure that no shock hazard exists, a check for the presence of leakage current should be made at each exposed metal part having a return path to the chassis (cabinet metal screw heads, knobs and/or shafts, escutcheon, etc) in the following manner.

If available, measure current using an accurate leakage current tester. Any reading of 0.7mA or more is excessive and indicates a potential shock hazard which must be corrected before returning the monitor to the owner.



If a reliable leakage current tester is not available, this alternate method of measurement should be used. Using two clip leads, connect a 1500 Ohm 10 Watt resistor paralleled by a 0.15µF capacitor in series with a known earth ground, such as a water pipe or conduit and the metal part to be checked. Use a VTVM or VOM with 1000 Ohms per volt or higher sensitivity to measure this AC voltage drop across the resistor. Any reading of 0.7 volt RMS or more is excessive and indicates a potential shock hazard which must be corrected before returning the monitor to the owner.

4. LASER PRECAUTIONS

WARNING!!

1. When servicing, (in case it is necessary to confirm Laser Beam Emission) be sure not to place your eyes any closer than 1 ft or 30cm from the surface of the Objective Lens on the Optical Pickup Block.

HANDLING THE LASER PICKUP

2. Laser diode are extremely susceptible to damage from static electricity. Even if a static discharge does not ruin the diode, it can shorten its life or cause it to work improperly. When replacing the pickup, use a conductive mat on the floor and desk and wear a wrist band connected to ground through a 1MΩ resistor to protect the laser diode from static damage. If the lens should get dusty, blow off the dust carefully from the object.
3. There are no adjustable parts in the pickup assembly. If it is defective, replace the whole pickup assembly.

CAUTION:

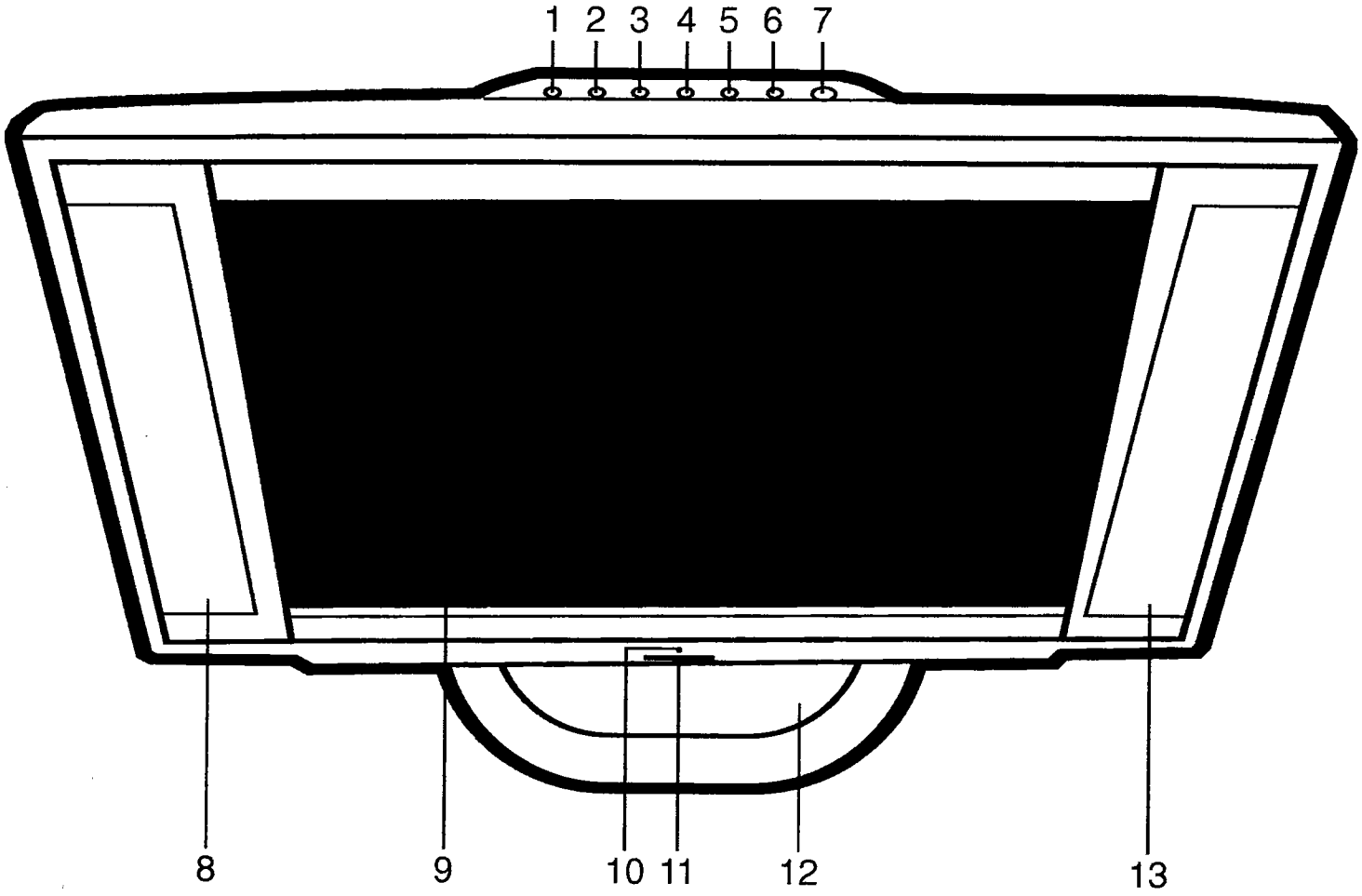
USE OF CONTROLS, ADJUSTMENTS OR PERFORMANCE OF PROCEDURES HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

DANGER:

IF INTERLOCK FAILS OR IS DEFEATED, THE LASER LIGHT IS ABLE TO FUNCTION. THE LASER IS INVISIBLE, AVOID DIRECT EXPOSURE TO BEAM.

LOCATION OF CONTROLS

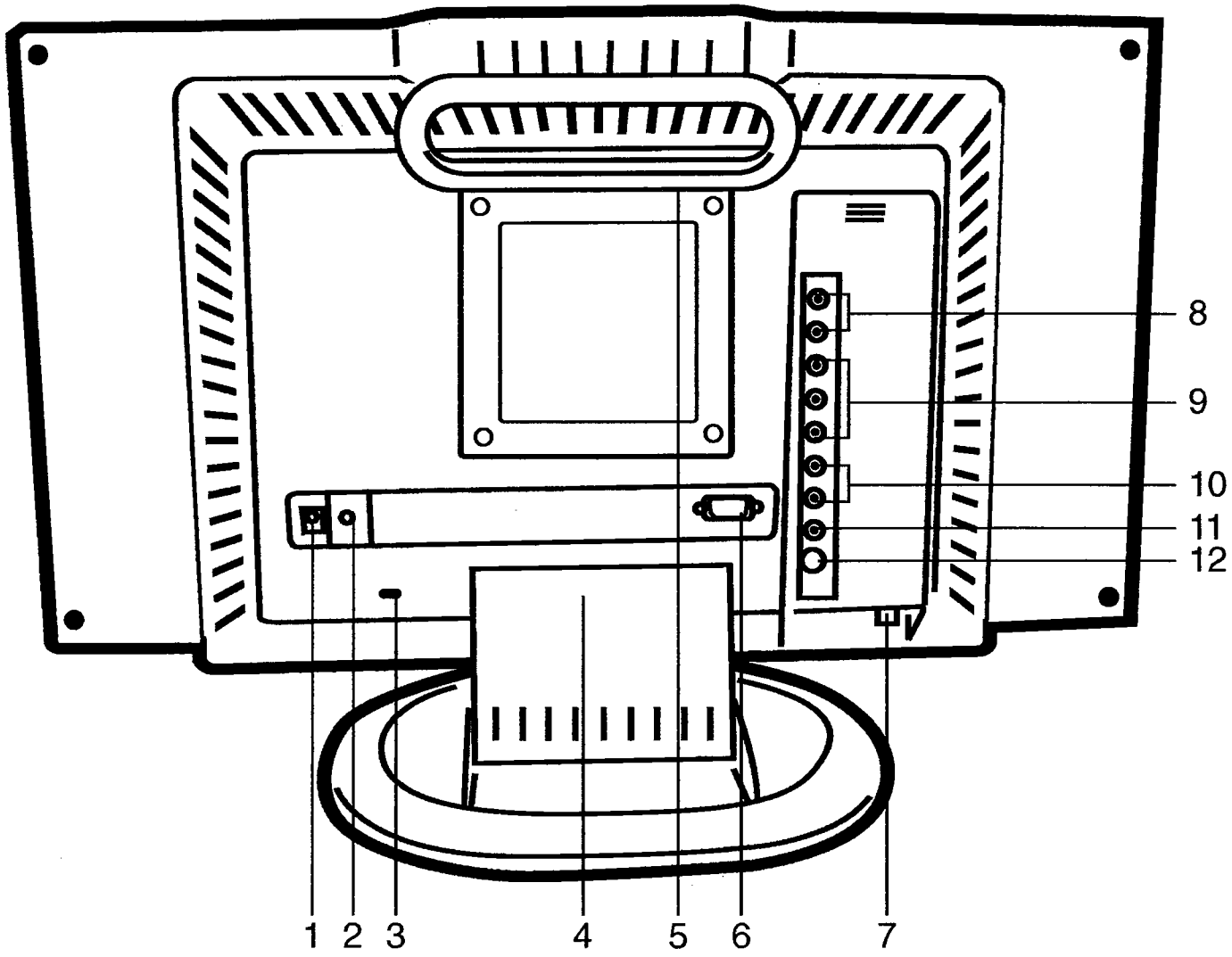
FRONT



1. TV/AV/PC Button
2. Volume Down Button
3. Volume Up Button
4. Channel Down Button
5. Channel Up Button
6. MENU Button
7. Power Button
8. Left Speaker
9. Display
10. Power Indicator
11. Remote Sensor
12. Stand
13. Right Speaker

LOCATION OF CONTROLS

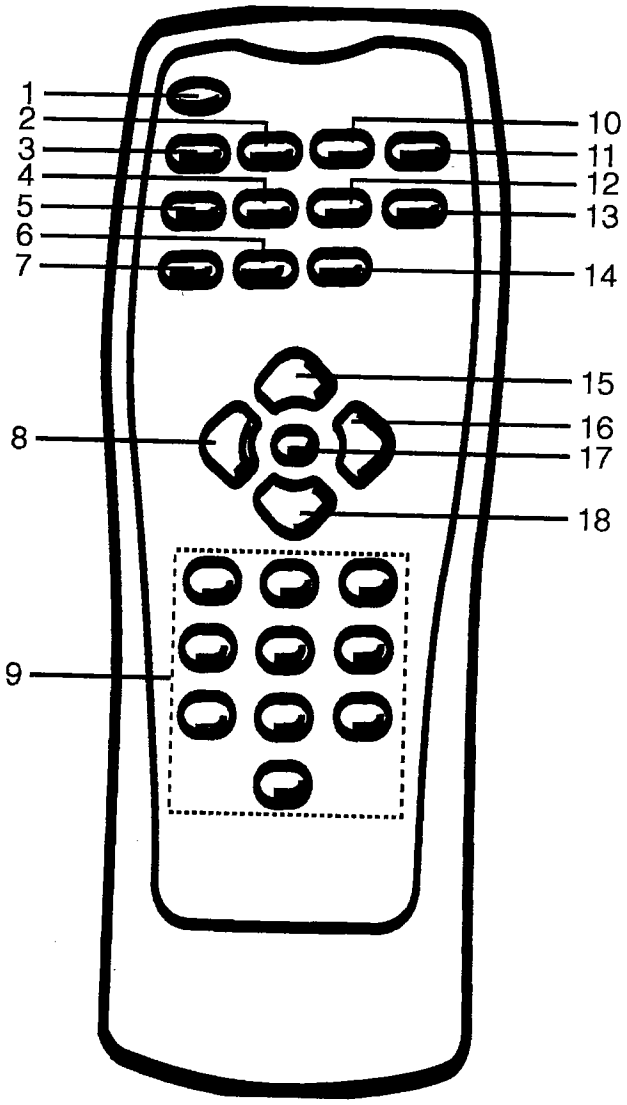
REAR



1. DC 12V IN Jack ⊖⊖⊕
2. VGA Audio IN Jack
3. Kensington Lock
4. Stand Cover
5. Handle
6. VGA IN Jack
7. ANT. IN Jack
8. AV2 AUDIO IN Right and Left Jacks
9. AV2 COMPONENT IN Jacks (Y/Pb/Pr)
10. AV1 AUDIO IN Right and Left Jacks
11. AV1 VIDEO IN Jack
12. S-VIDEO IN Jack

LOCATION OF CONTROLS

REMOTE



1. POWER Button
2. MTS Button
3. MUTE Button
4. SLEEP Button
5. TV/AV/PC Button
6. DISPLAY Button
7. LAST CH Button
8. Navigation ⇦ Button
9. Direct Channel Selection Buttons
10. VOLUME Up Button
11. CHANNEL Up Button
13. CHANNEL Down Button
14. 4:3/16:9 Button
15. Navigation ⇧ Button
16. Navigation ⇨ Button
17. Menu (►) Button
18. Navigation ⇩ Button

SPECIFICATIONS

PRODUCT FEATURES

- 43.1 cm (17") a-si TFT Active matrix LCD panel, 0.289 mm dot pitch, 262.144 colors.
- Microprocessor controlled scan technology
- 12 factory presets
- Vertical refresh rate 55Hz to 75 Hz
- Horizontal frequency 29KHz to 61KHz
- Resolutions: 640 x 480 up to 1280 x 768
- Recommended Resolution 1024 x 768 @ 60Hz
- Universal power supply designed for worldwide application
- UL, FCC, CE certification
- Speaker 2.5W x 2
- Closed Caption(OPTION)
- V-CHIP(OPTION)
- BTSC Stereo/SAP or NICAM Stereo/ DUAL

MAIN DIMENSIONS / WEIGHT

	Monitor	Packed Monitor
Width:	518mm	586mm
Height:	333mm	502mm
Depth:	198mm	154mm
Weight:	5.0kg (Net Weight)	6.8kg (Gross Weight)

ELECTRICAL PERFORMANCE

All tests must be performed under "standard testing conditions" (item 2.1) unless otherwise specified

STANDARD TESTING CONDITIONS

Warm up time .....>30 min.
AC supply voltage.....110V or 230V°" 5¢H, 50°" 3 Hz
Ambient temperature .....20∞C ± 5∞C
Humidity .....65% ± 20%
Display mode .....1024x768@ 60 Hz , all white
Contrast control.....Set to factory preset value, which allows that the brightest two of 32 linear
.....distributed grayscales (700mv) can be distinguished.
Brightness control.....Set to maximum value
Input signal.....:0.7Vpp
Picture position and size .....Factory preset value,
Viewing angle .....90 ° H and V
Viewing distance .....100 cm for LCD performance,
30 cm for LCD failures
Ambient illumination.....Dark room (°' 1 cd/m2)

ANALOG RGB VIDEO INPUTS

Level 0.7Vpp
Polarity .....Positive
Impedance.....75 Ohm
Max. dot clock.....80 MHz

SPECIFICATIONS

POWER SUPPLY

A/C Line voltage range .....100 V ~ 240 V
A/C Line frequency range .....50 ± 3Hz, 60 ± 3Hz
Current.....1.5A max. at 90V, 0.75A max. at 265V
Peak surge current.....:< 50A peak at 220 VAC, : < 30A peak at 110 VAC and cold starting
Leakage current..... < 3.5mA
Power line surge .....: No advance effects (no loss of information or defect)
.....with a maximum of 1 half-wave missing per second

AC ADAPTER OUTPUT

Voltage.....:12VDC ± 5%
Current .....5.0 Amp (max)

POWER CONSUMPTION

The monitor is equipped with a power-management according to the below. There is a delay of 5s ... 7s before the transition from On-state to any power saving state to avoid unintentionally entering of a power saving stage during display resolution and timing mode changes. Transition from any power saving state to another can be instantaneous.
The recovery from Off-state requires no manual power on.

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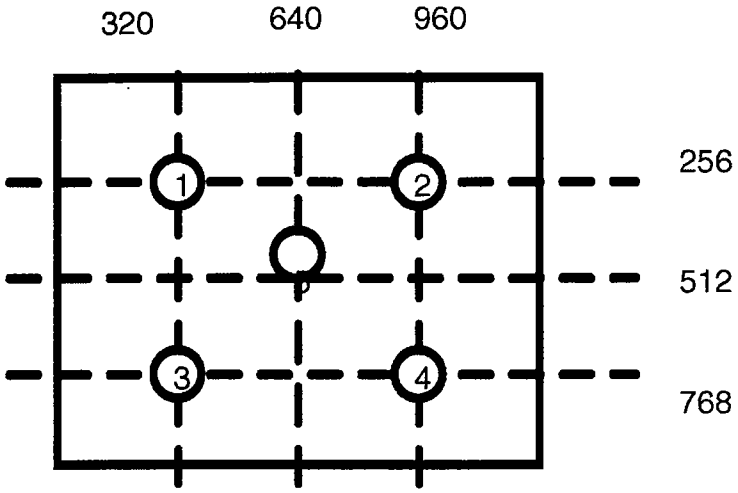
5.3 RECEIVING CHANNEL FREQUENCY TABLE 19

MEASUREMENTS

MEASUREMENT CONDITIONS

Warm up time: 30min.
Angle for measurement: 90°H andV
Distance: 100cm
Equipment: Minolta CS-100
Measurement positions:



Grey scale definition: White means digital value for RGB=255,255,255
50% gray RGB=127,127,127
Black, RGB=0,0,0

PICTURE SIZE AND CENTERING

For 1280 X 768 resolution the picture size is equal to the active area of the display. For Smaller Resolution (SVGA, VGA Text and VGA Graphics) there is an expansion algorithm which expands the picture to a maximum possible size. The display is centered with respect to the front bezel opening with a tolerance of 0.5mm

SIZE CONTROL RANGE

The picture size can be adjusted to achieve activation of all pixels of the display in1280 X 768 resolution
Resolution, for XGA, SVGA, VGA Text and VGA Graphics the conditions of 3.2 can be met.

POSITION CONTROL RANGE

The picture position can be adjusted that a complete picture can be displayed centered

Max. BRIGHTNESS : PC Mode

340(MIN.), 400(Typ.) cd/m2
Test conditions:
- center of display (5)
- video input (RGB) = 0.7Vpp
- brightness control is set to max.

MEASUREMENTS

- contrast control is set to max.

MIN. BRIGHTNESS : PC Mode

< 100 cd/m2

Test conditions:

- center of display (5)
- video input (RGB) = 0.700V
- brightness control is set to min.
- contrast control is set to min.

CONTRAST RATIO : PC Mode

The contrast ratio(CR) measured at center position (5) of the display for it should be better than 210(MIN.), 400(Typ.) and is calculated according to the following formula.

$$CR = \frac{\text{Brightness of all pixels white}}{\text{Brightness of all pixels black}}$$

BRIGHTNESS UNIFORMITY

The brightness uniformity has to be better than 70% and is calculated according to to the following formula:

$$_Y = [\ \frac{Ymin}{Ymax}\ ]\ \ X\ 100\%$$

With Y1 to Y5 as the brightness values with all pixels white at the 5 measurement positions

WHITE COLOR COORDINATES

The white color temperature should be app. (CIE1931, Normal : 9300 and 6500),a 3rd channel should be available, which can be defined by the user.The measurement position is the center of the display(5) at brightness set to maximum and Contrast set to center.The tolerance of the color coordinates should be less than ± 0.020.

WHITE COLOR UNIFORMITY

The deviation of the white color coordinates at the 4 positions (1)....(4) should not exceed ±0.020 with respect to the measurement at the center position(5).

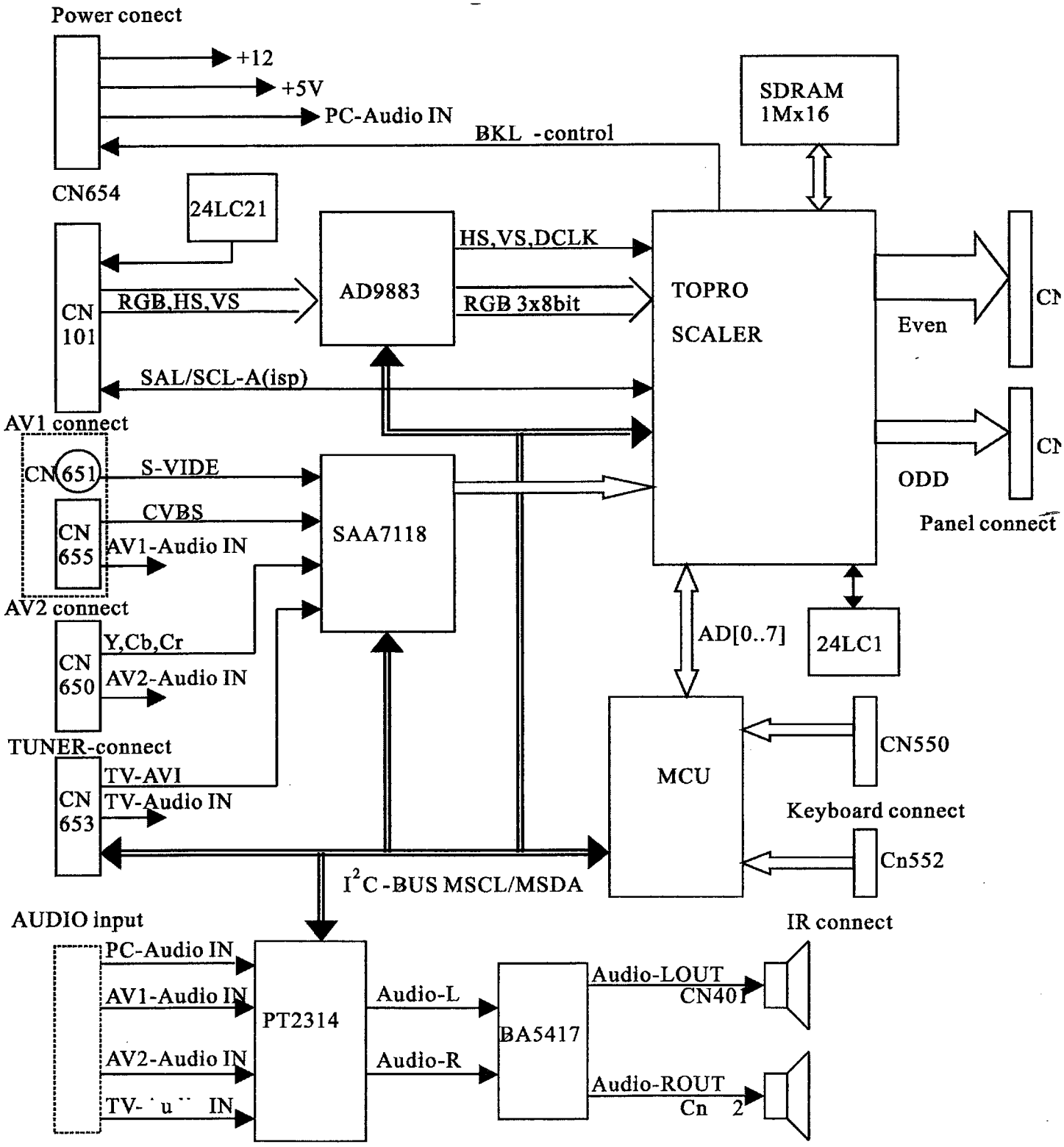
PURITY

Purity is defined as the uniformity of the chromaticity of the three primary colors. The Deviation of the color coordinates of the primary colors red/green/blue at the 4 positions (1)...(4) should not exceed ± 0.020 with respect to the measurement at the center position(5)

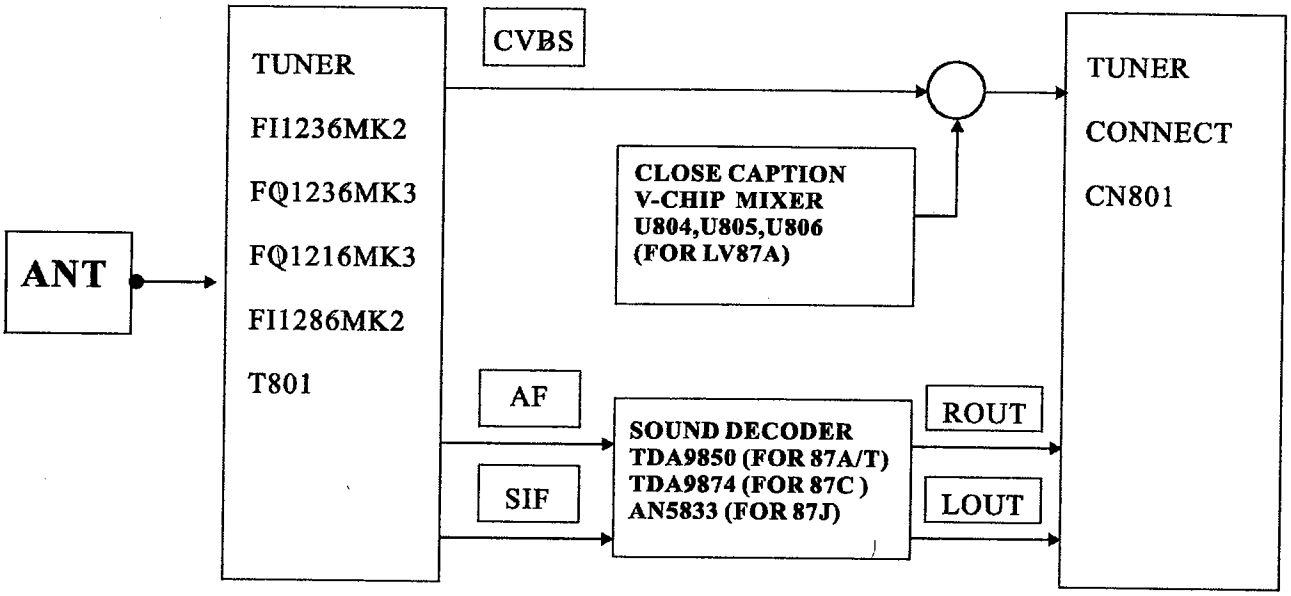
RESPONSE TIME

The response time of the display for Fujitsu should be better than 15ms type. The response time is measured from 90% to 10% (tr) and from 10% to 90% (tf) for a transition from white (100%) to black (0%) to white (100%).

BLOCK DIAGRAMS



BLOCK DIAGRAMS



CONNECTOR P/N ASSIGNMENT

1.2 MAIN DIMENSIONS / WEIGHT .....
1.3 LOADING QUANTITY .....
1.4 CLOSED CAPTION (OPTION) .....
1.5 BTSC or NICAM .....
1.6 V-CHIP (OPTION) .....
2 ELECTRICAL PERFORMANCE .....
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2.3 DDC SIGNALS (VESA DDC1/2B) .....
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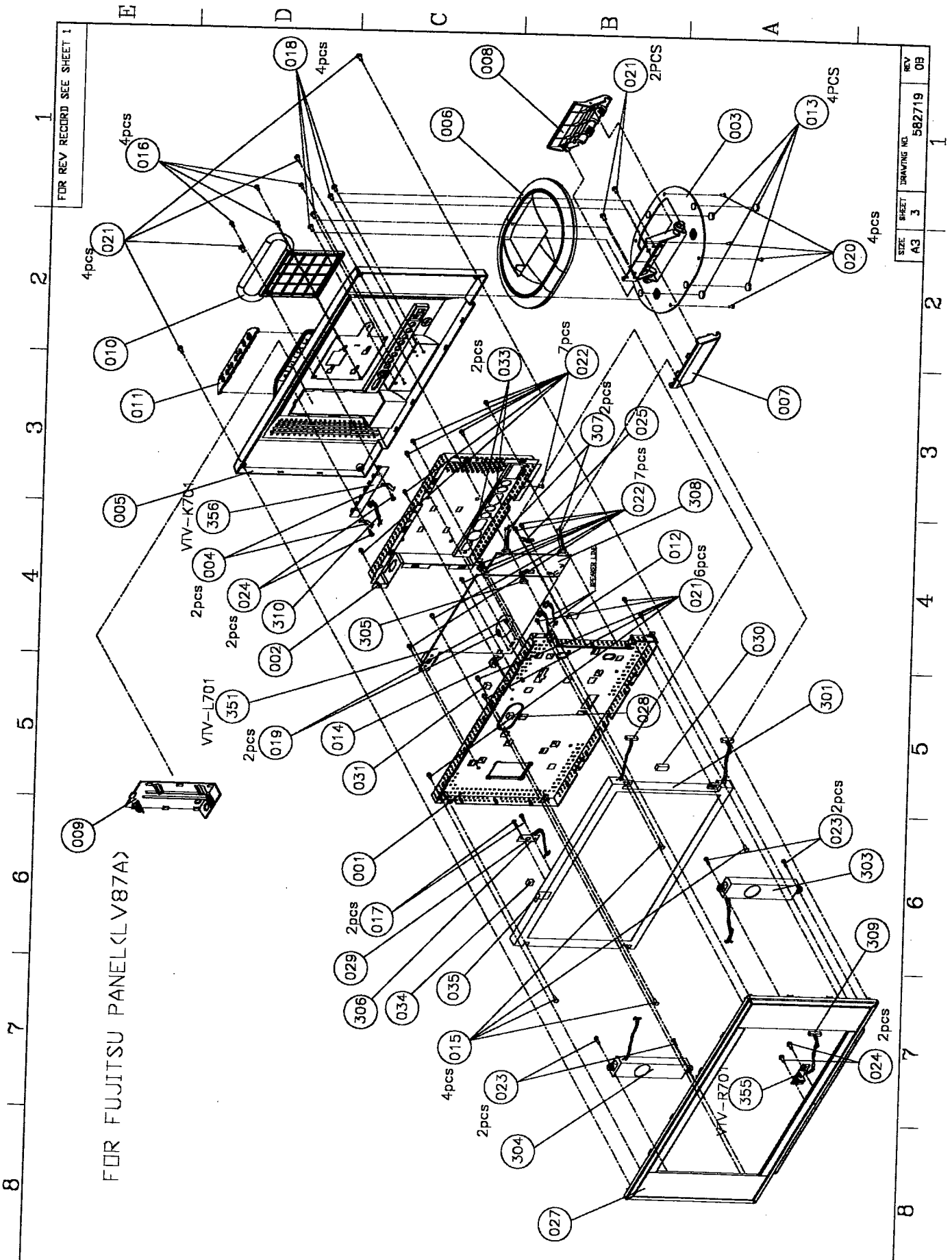
3.3 BRIGHTNESS UNIFORMITY 1
3.4 WHITE COLOR COORDINATES 1
3.5 WHITE COLOR UNIFORMITY 1
3.6 PURITY 1
3.7 RESPONSE TIME 1
3.8 VIEWING ANGLE 1

CONNECTOR PIN ASSIGNMENT

Location\ PIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
CN101	R-IN	G-IN	B-IN	ISP-SCL	GND	GND	GND	GND	DDC 5V	DET.	ISP-DDC	DDC-SDA	Hsync	Vsync	DDC-SCL
CN201/ CN552	PWR-G	PWR-Y	5V	GND	IR-DAT										
CN202/ CN550	OSD-S7	OSD-S6	OSD-S5	OSD-S4	OSD-S3	OSD-S2	OSD-S0	GND							
CN1/ CN654	5V	5V	GND	GND	GND	PAN-ON	PAN-BRI	12V	12V	12V	PC-RIN	PC-LIN	GND		
CN653/ CN801	TV-AVOUT	PW-TV	TV-LOUT	TV-ROUT	GND	GND	MSDA	MTS-SU	VHS-2	MODE	MSCL	MTS-ST	MTS-MA	5V	12V
CN301/ CN652	VHS-2	TV-AVOUT	GND	TV-ROUT	GND	TV-LOUT									
CN651	GND	GND	S-LUM	S-CHR											
CN650	GND	AU1-R	GND	AU1-L	GND	AV-CVBS									
CN655	GND	COMP-Cr	GND	COMP-Cb	GND	COMP-Y									
CN656	GND	AU2-R	GND	AU2-L											
CN401	LFSPEAK	GND													
CN402	RFSPEAK	NC	GND												
CN601	REF. Schematic														
CN602	REF. Schematic														

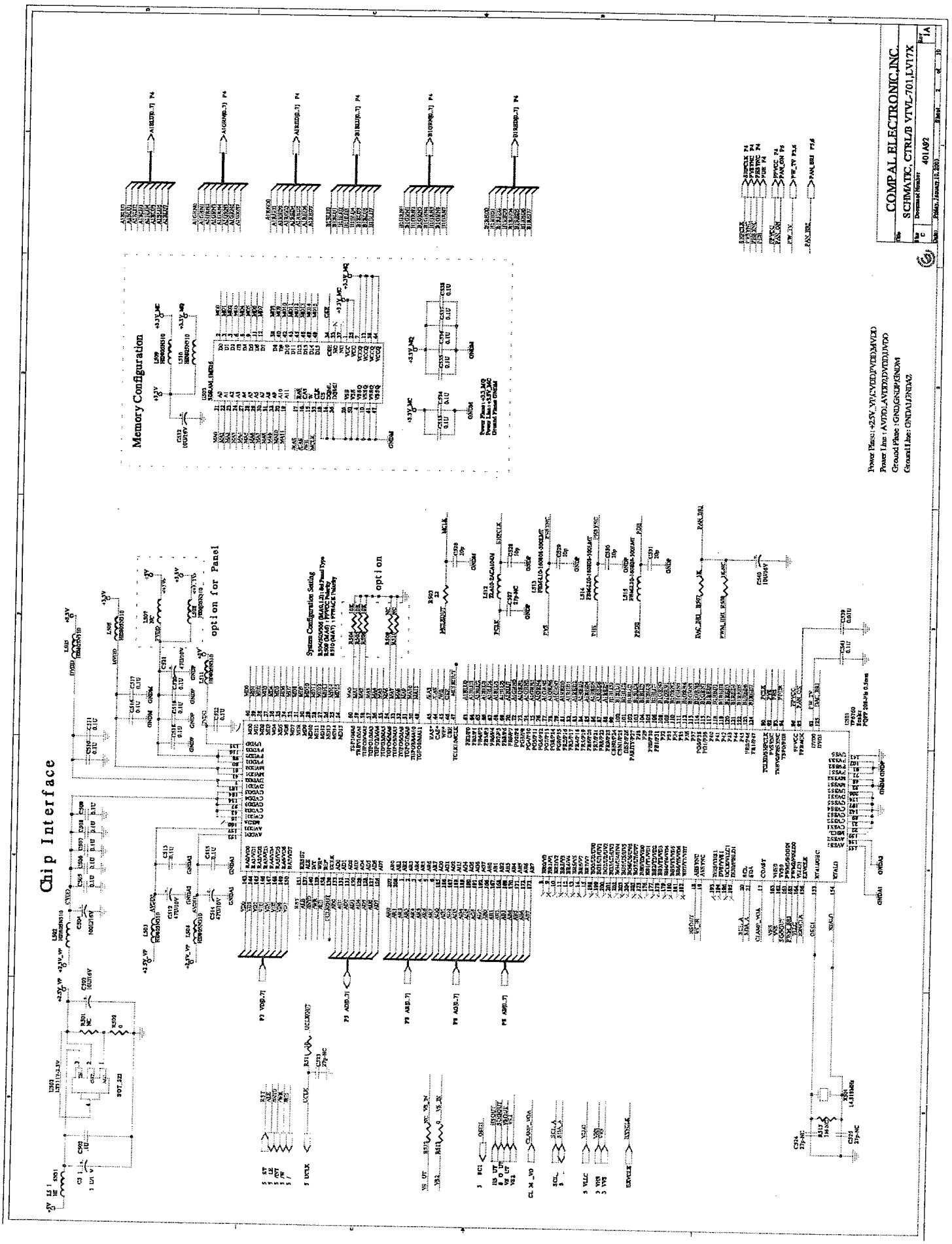
EXPLODED VIEW



EXPLODED VIEW PARTS LIST

PART NUMBER	DESCRIPTION	VALUE	REF NO.
58271930001	DISPLAY C-E	SLV171F UR 17"FUJ 1280X768	
58271930002	DIS UNIT CCE	SLV87AF TCO99 17"FUJ 1280X768	
58271930003	DIS UNIT PAO	SLV87AF TCO99 17"FUJ 1280X768	
X66AL930001	MEC PARTS C-E	SLV171F MBK04/MSV16	
X66AL930002	MEC PARTS CCE	SLV87AF TCO99 MBK04/MSV16	
X66AL930003	MEC PARTS PAO	SLV87AF TCO99 MBK04/MSV16	
ECLV1714000	CHASSIS	LV1714(SECC0.8)	001
ECLV1715000	EMI_SHIELD	LV1715(TIN0.3)	002
ECLV1725000	HINGE ASSY	LV1725(SECC2.0)(T=20KG-CM)	003
ECLV1749000	KEYBOARD SPRING	LV1749	004
FALV1712A00	BACK COVER ASSY	LV1712A MBK04	005
FALV1713000	BASE	LV1713 ABS94HB MBK04_PN_MSV16	006
FALV1721000	NECK FRONT	LV1721 ABS94HB MBK04	007
FALV1722000	NECK BACK	LV1722 ABS94HB MBK04	008
FALV1723000	BUCKET DOOR	LV1723 ABS94HB MBK04	009
FALV1723001	BUCKET DOOR(NO HOLE)	LV1723 ABS94HB MBK04	009
FALV1724000	HANDLE	L1724 ABS94HB MBK04_PN-MSV16	010
FALV1731A00	KEY PLATE ASSY	LV1731A MCG28-PN-MSV16	011
FHLV1744000	RUBBER	LV1744(10X5X5.8mm)	012
FHLV1745000	RUBBER FOOT	LV1745(D=10.0X2mm)	013
LC05NM55100	CLAMPE	WC-05T N6 94V2	014
MAA20000065	SCREW	M4.0X0.7+8P-NI	015
MAA20105420	SCREW	M4X0.7+10P-ZK	016
MAA70001300	SCREW	M2X0.4t12C-MC	017
MAA70002400	SCREW	M4X0.7+11P-MC WASHER DIM 8.0	018
MAAA0019400	SCREW	4#40UNCX12.7 PLS-WASHER	019
MAB10003400	SCREW	TPP-4+10F-MC	020
MAB20074201	TAPING SCREW	TPP-4.0+10P-NI	021
MAB20074202	TAPING SCREW	TPP-4.0+10P-ZK	021
24 MAA70005320	SCREW	M3X0.5+6C-NI DIM 6.5	022
MAB7T002401	SCREW	TPB-4+8C-MC	023
MAB80007400	SCREW	TPP2X3+12B-MC	024
ECCM8744000	SPRING	CM8744	025
ECCM8744100	SPRING	CM8744	025
FALV1711A00	BEZEL ASSY	LV1711A MBK04-PN-MSV	027
FALV1711A40	BEZEL ASSY(IX)	LV1711A ABS94HB MBK04_MSV	027
FHCM5741000	GASKET	71TS-10(W)-6.5(H)-45(L)-13	028
FHCM8747000	GASKET	71TS7-3N-20	029
FHCM8841100	GASKET	71GV-10(W)-15(H)-20(L)-13	030
FHLV1746000	CHASSIS	RUBBER PAD LV1746	031
FHLV1747000	BUCKET	RUBBER PHILIPS LV1747	032
FHLV174A000	GASKET	LV174A(71GV-W5-H3-L40-13)	033
LCCM5546100	CONDUCTIVE FOAM	CM554 20X10X10mm	034
LCCS5542000	CONDUCTIVE FABRIC	CS5542 30X30mm	035
MALV174B100	SCREW(FOR SLV)	LV174B(4-40UNC_L25_D5)	037
AC6V0000320	LCD MODU	FLC43XWC6V-02T 17" FUJITSU	301
CG12P51V000	SPK SET	2.5W 4.5ohm EABT301AR6 350mm R	303
CG12P51V010	SPK SET	2.5W 4.5ohm EABT301AL6 520mm L	304
DC020151700	H-CON SET	LV17 MB-INV 13P P2.0	305
DC020151800	H-CON SET	LV17 MB-PANEL	306
DC020152100	H-CON SET	LV17 LAMP-INV 4P	307
PK07V000700	INVERTER	LV17 17" TBD092L TDK	308
DC020151500	H-CON SET	LV17 MB CON552-IR CON201 P2.0	309
DC020151600	H-CON SET	LV17 MB CON550-KEY CON202 P2.0	310
455A9230001	PCBA TUNER/B	VTV-N7903 LV171	352
X66AL930001	MEC PARTS	C-E SLV171F MBK04/MSV16	353
X66AL930002	MEC PARTS	CCE SLV87AF TCO99 MBK04/MSV16	353
X66AL930003	MEC PARTS	PAO SLV87AF TCO99 MBK04/MSV16	353
461A9230001	FIRMWARE	CTRL/B VTV-L701 LV17	354
461A9230002	FIRMWARE	CTRL/B VTV-L701 LV87A PAO	354
454A9130001	PCBA	IRKEY/B VTV-R701 LV171	355
454A9230001	PCBA	KEY/B VTV-K701 LV171	356

SCHEMATIC DIAGRAMS



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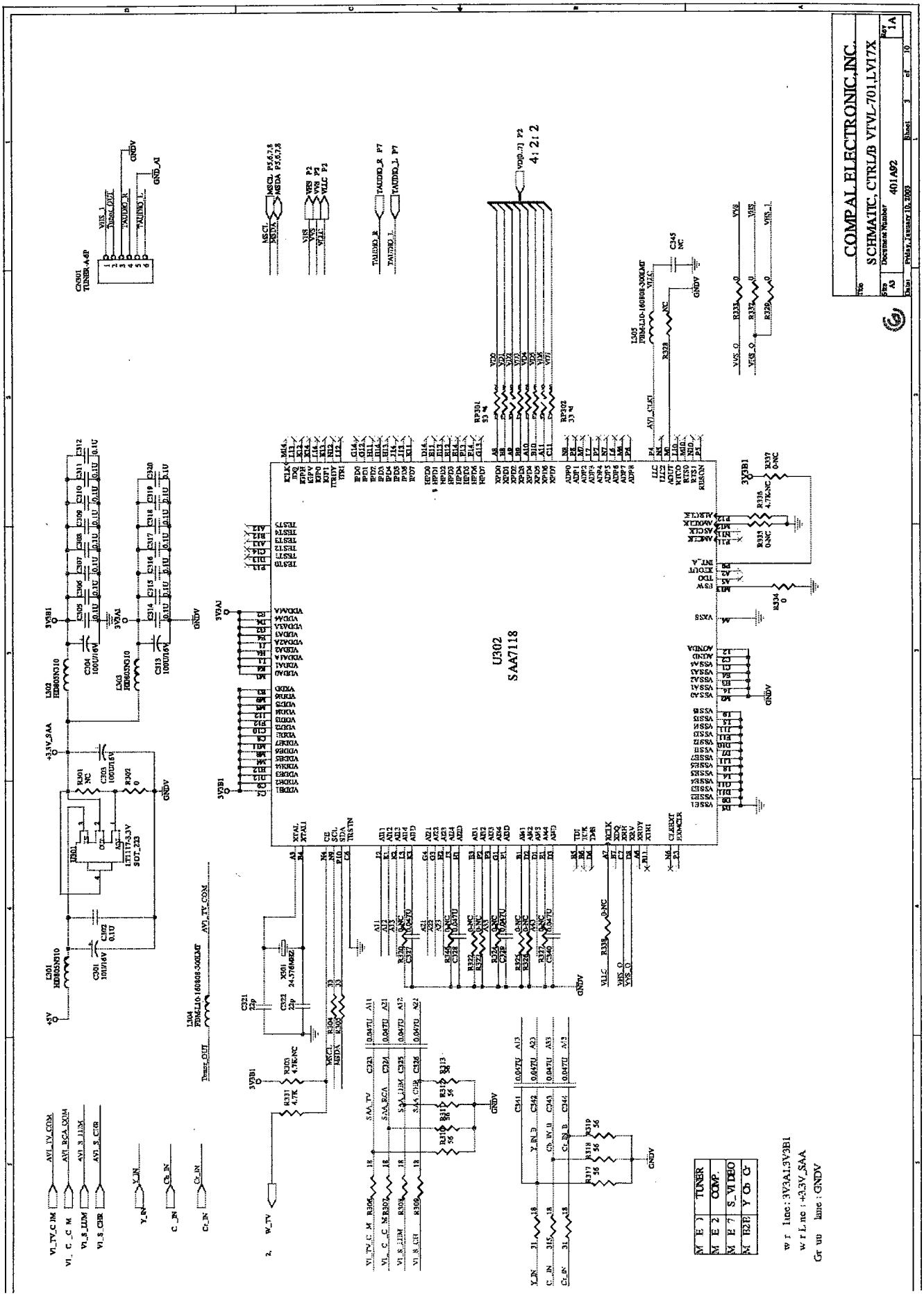

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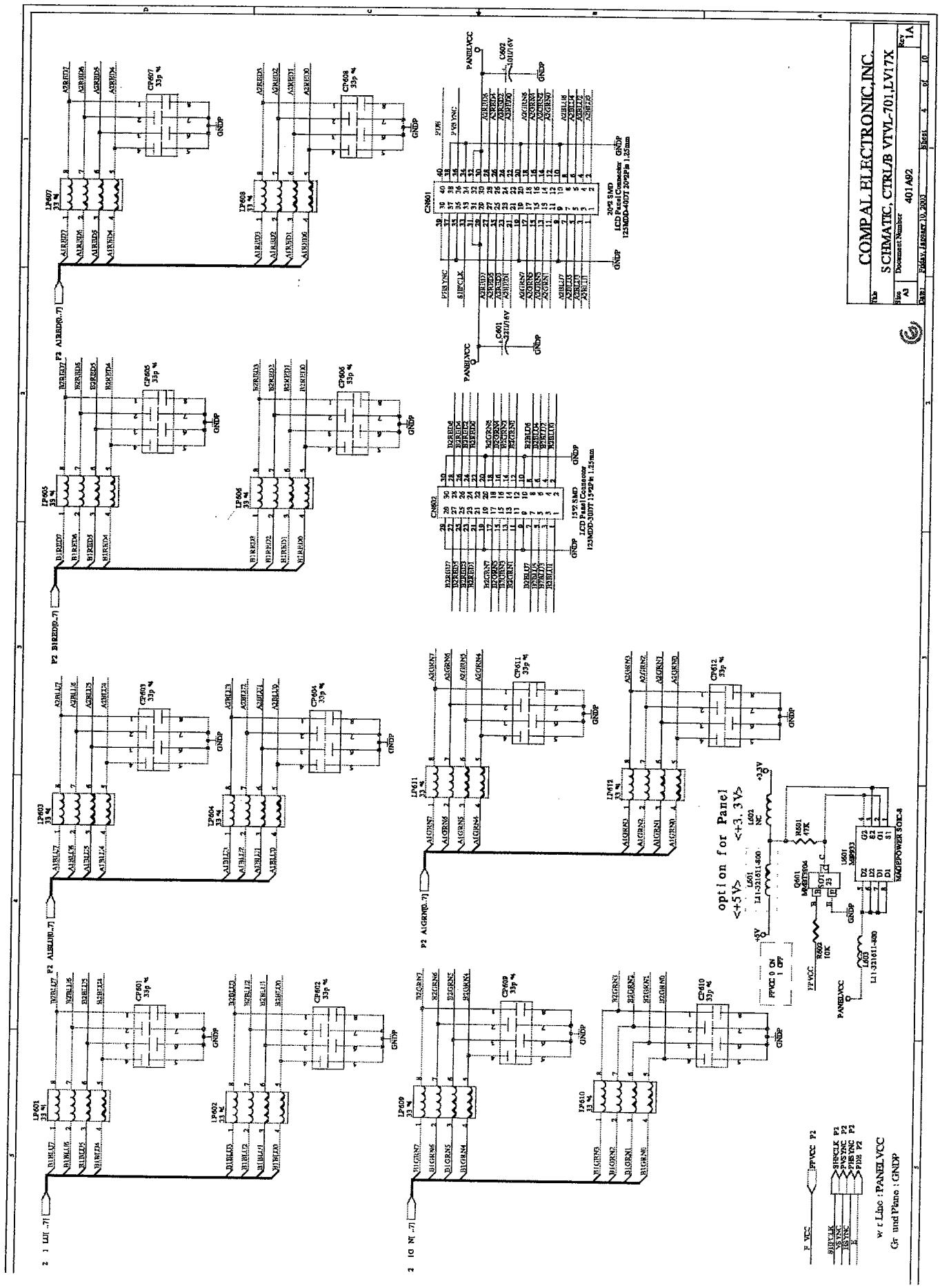

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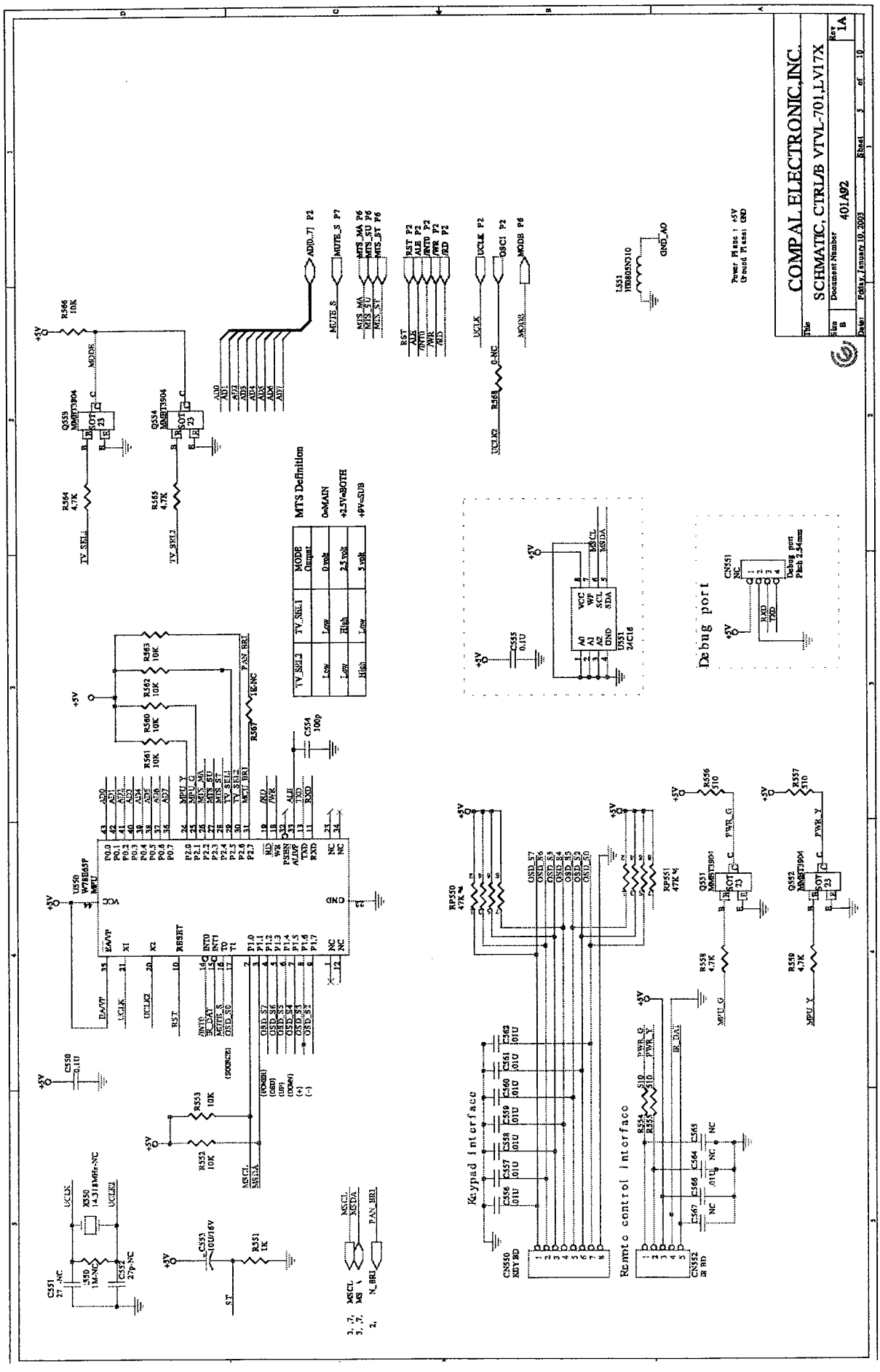
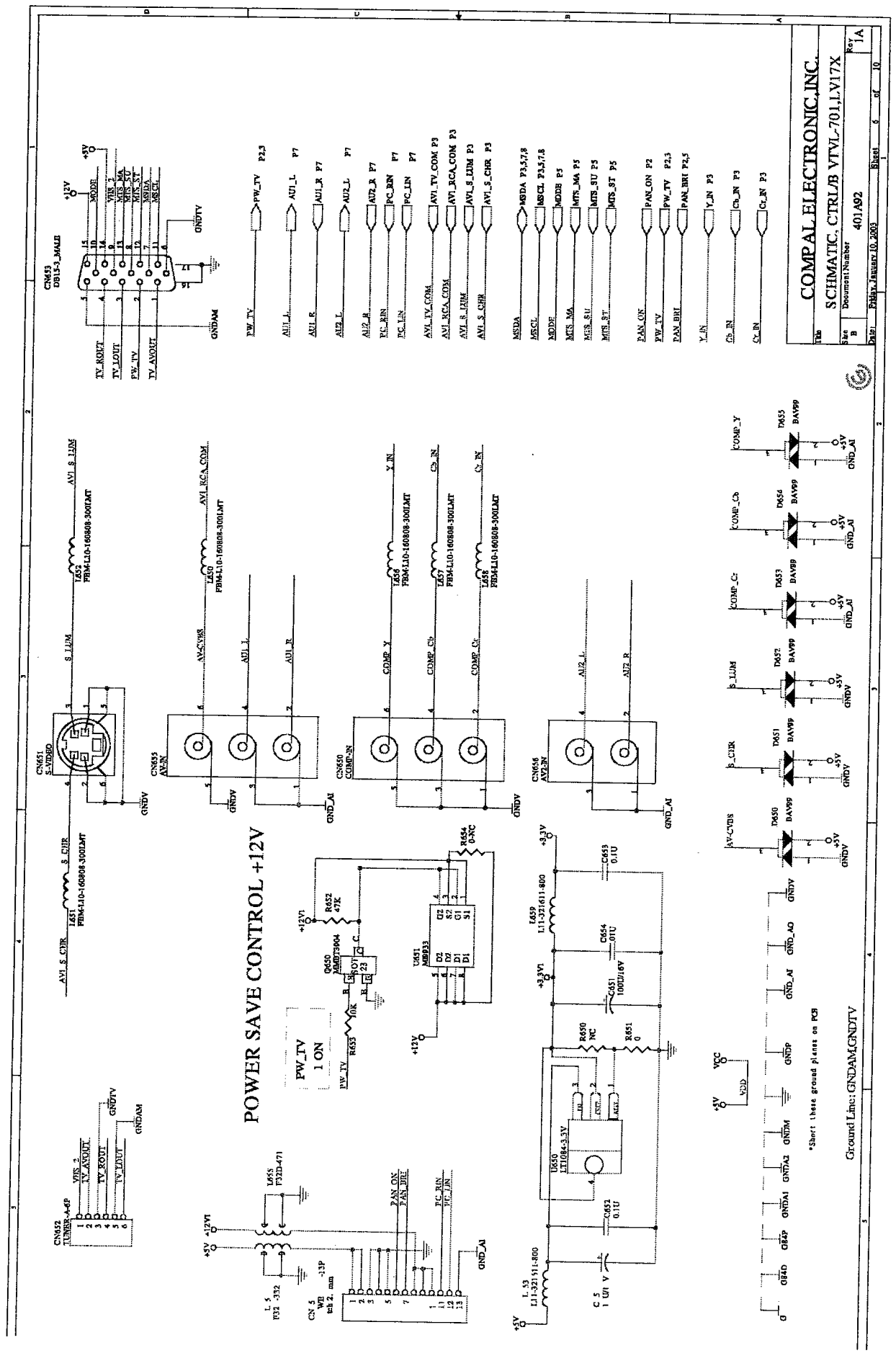
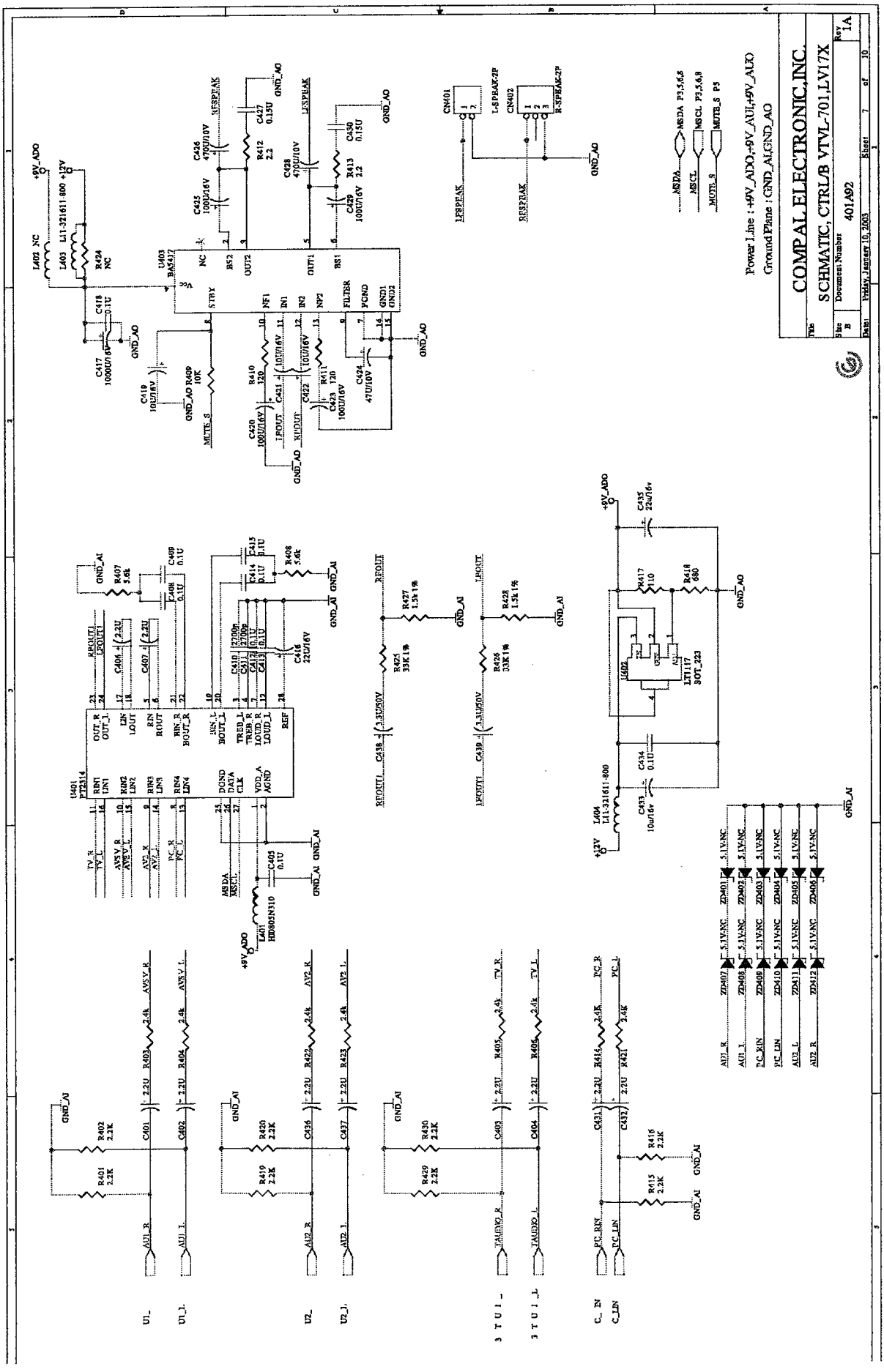


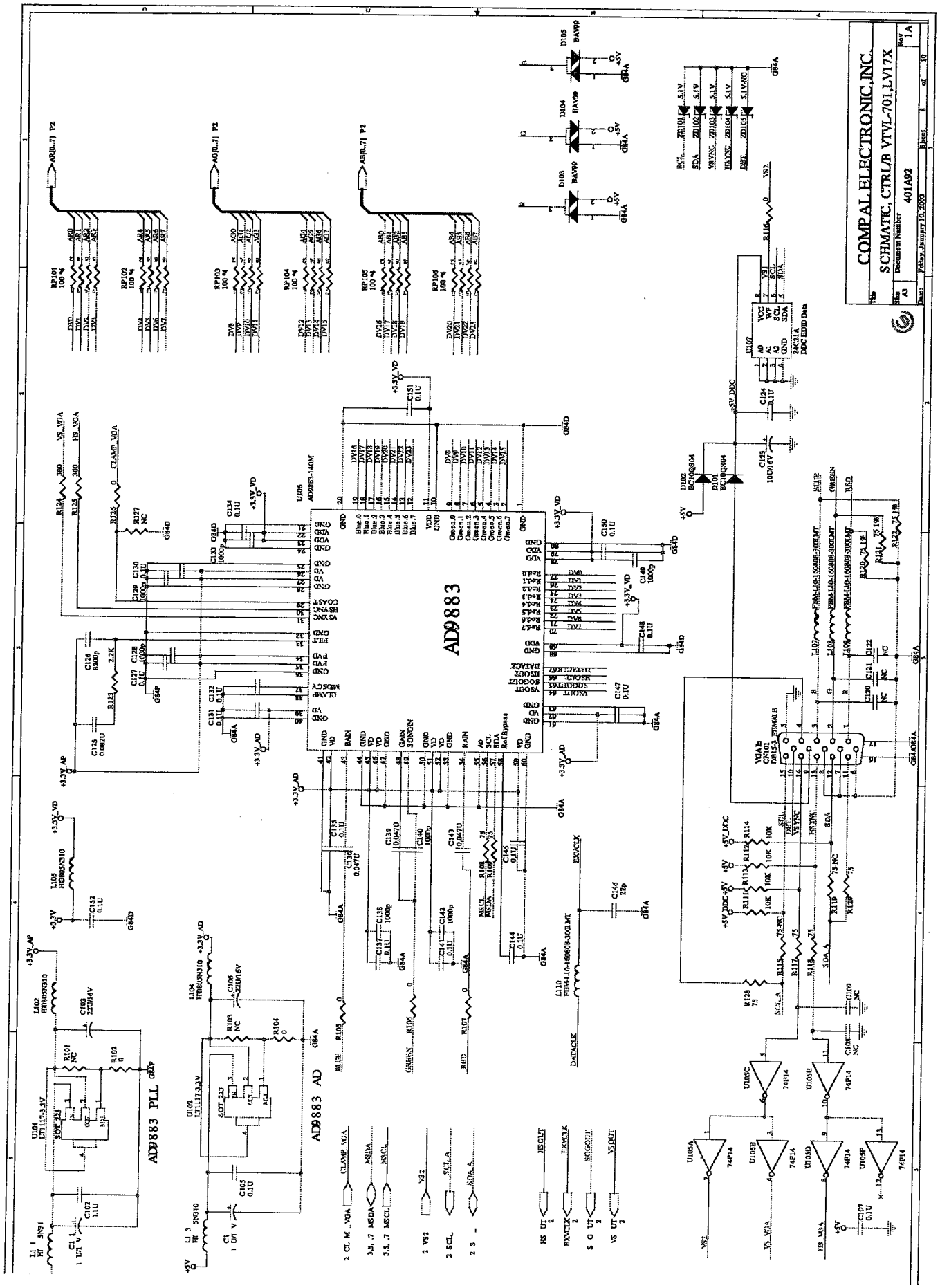
SCHEMATIC DIAGRAMS



SCHEMATIC DIAGRAMS



SCHEMATIC DIAGRAMS



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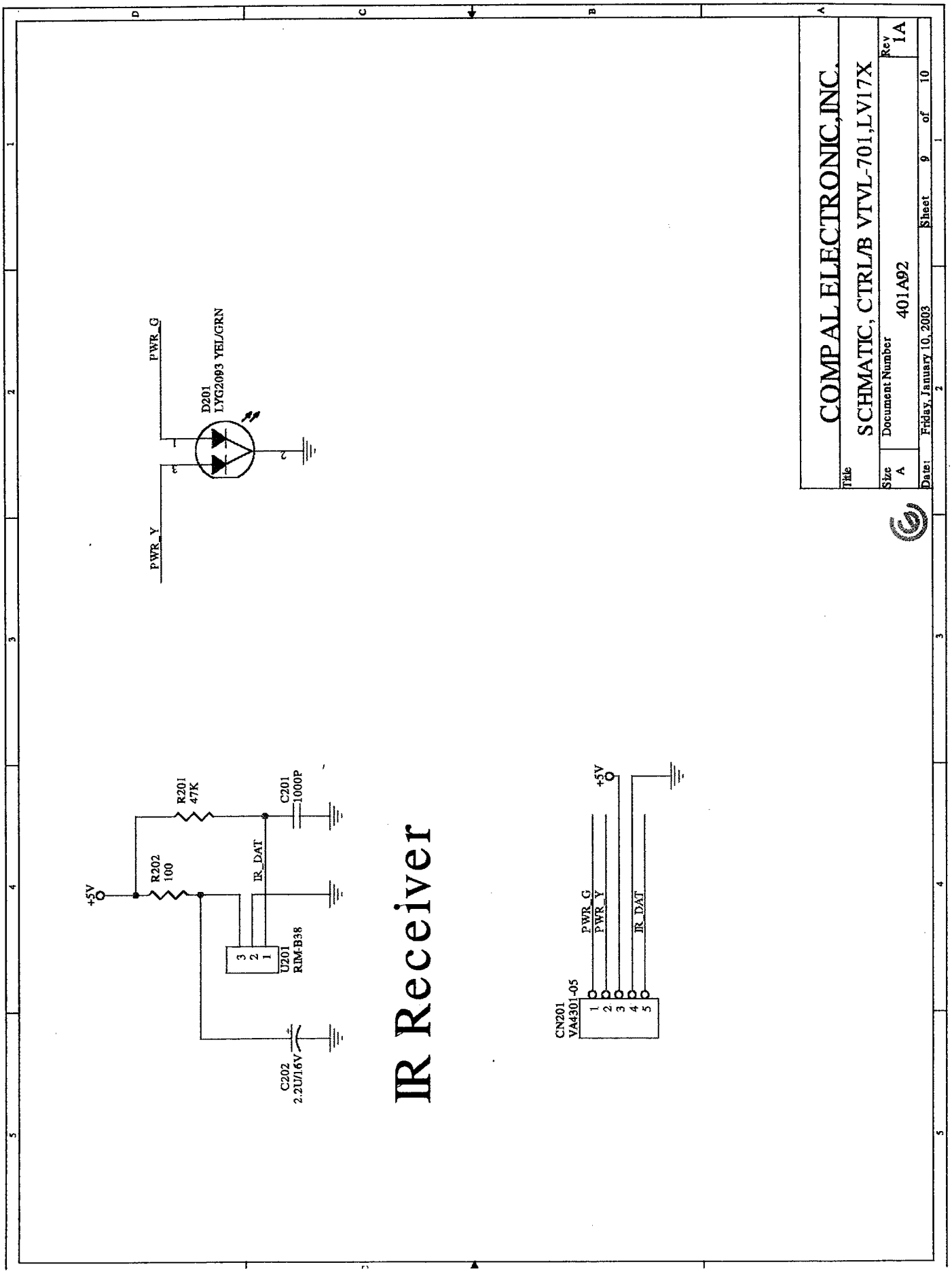

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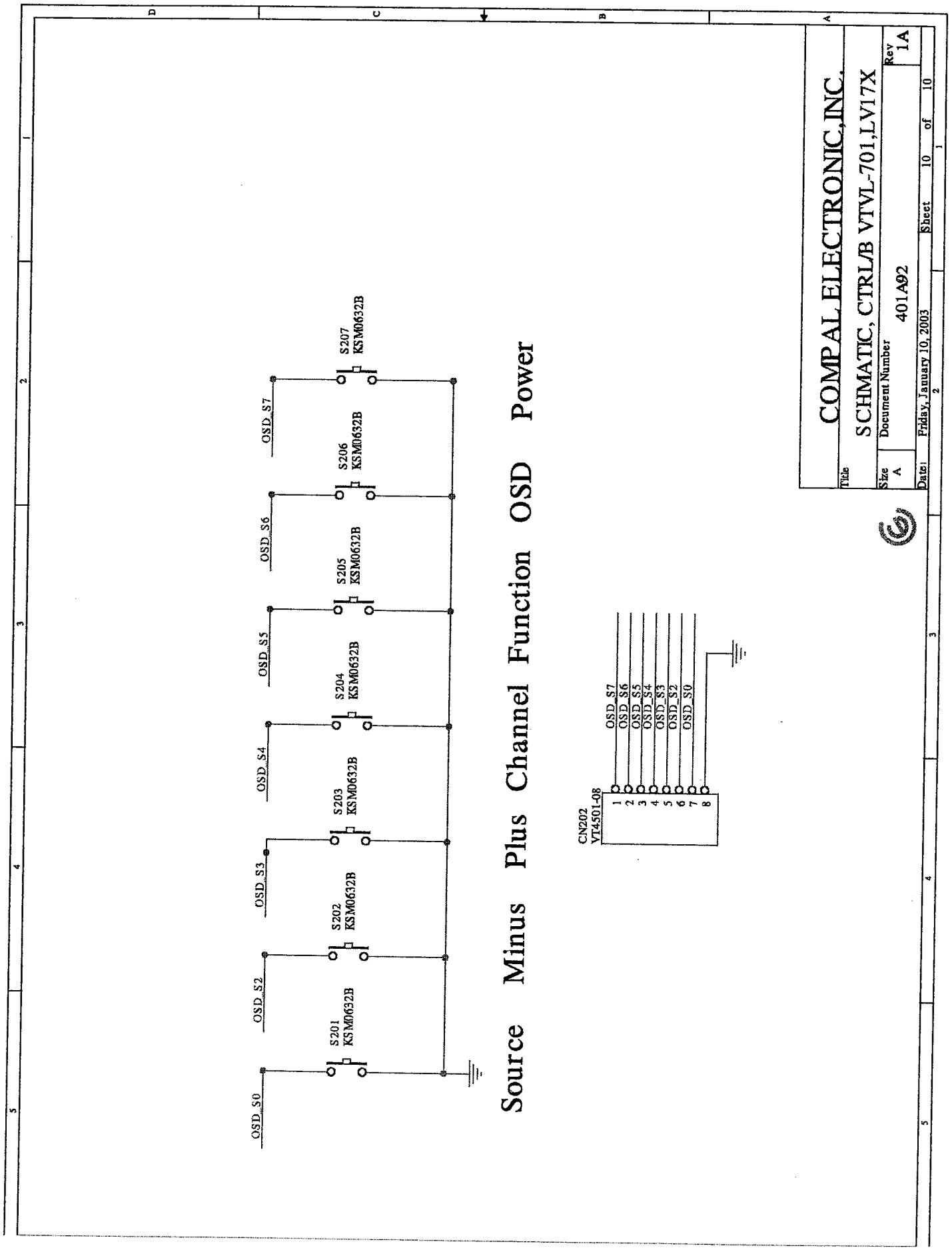
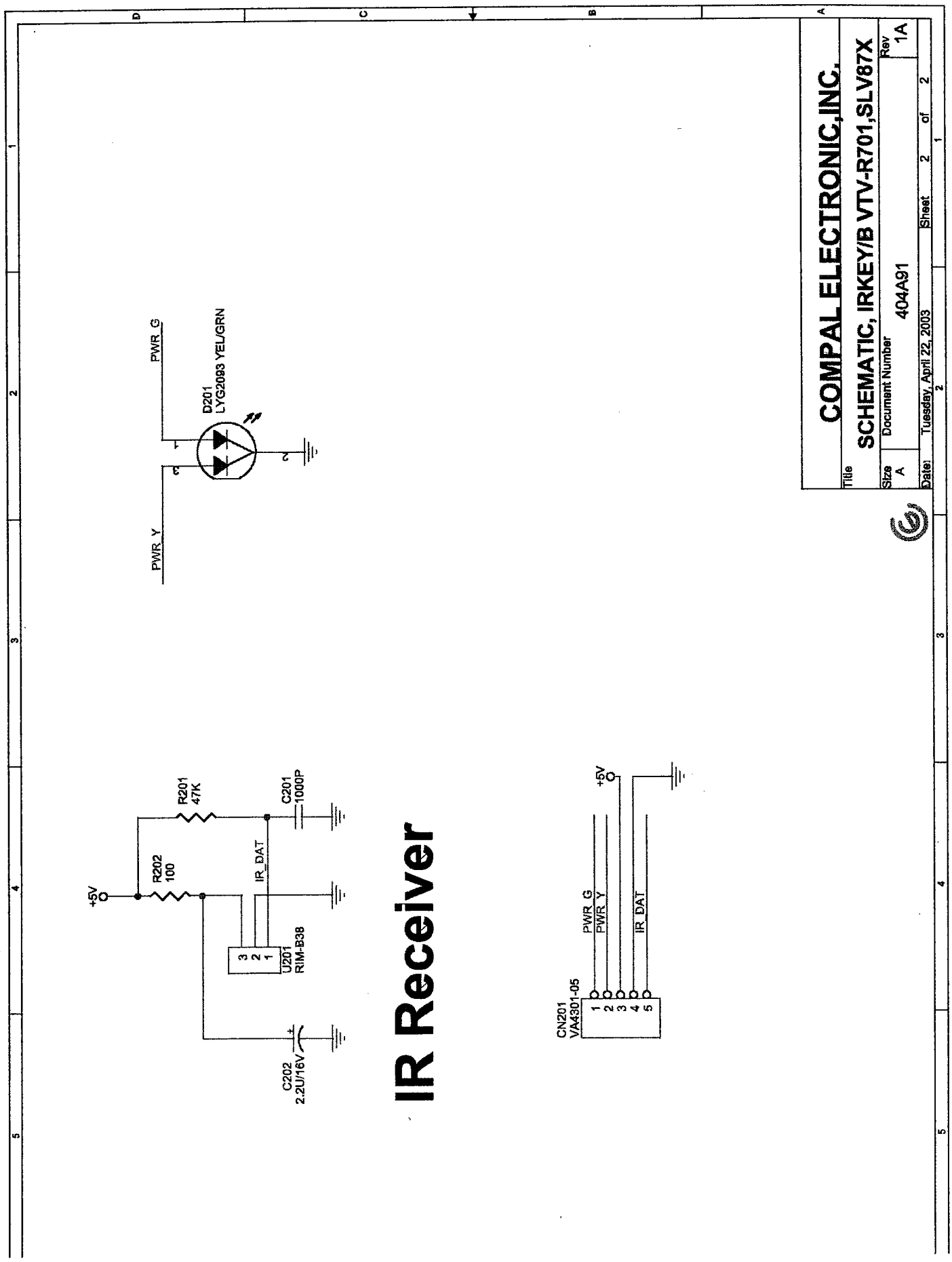


SCHEMATIC DIAGRAMS

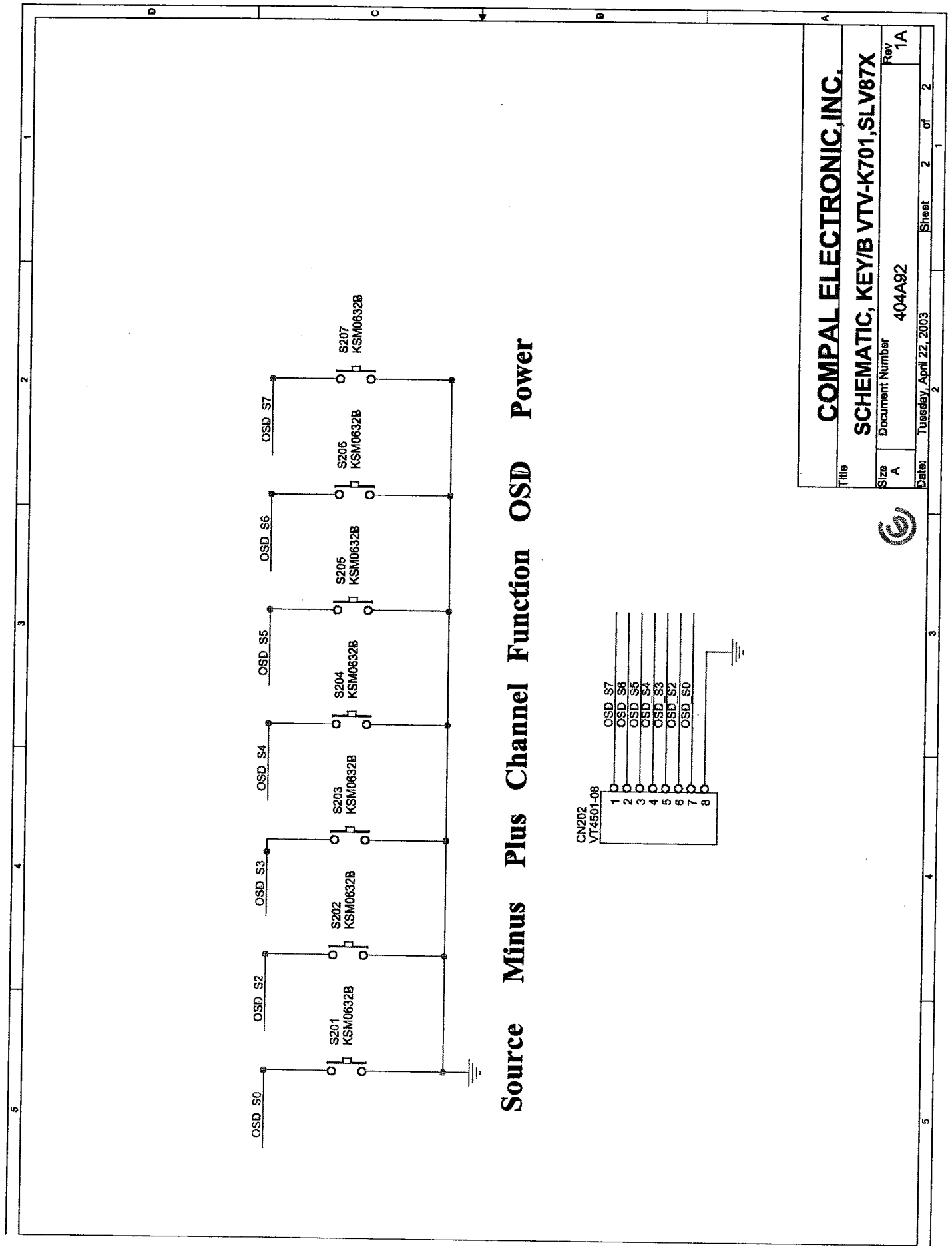


ELECTRICAL PARTS LIST

PART NUMBER	DESCRIPTION	VALUE	REF NO.
SC10QS042T4	S DIO	EC10QS04	D101 D102
SC4LZ51B0T8	SM ZENER DIODE	RLZ5.1B (LL-34)	ZD101 ZD102 ZD103 ZD104
SC6BAV99000	SM DIODE ARRAY	BAV99(JE) 2P S SOT23 3KV	D103 D104 D105 D650 D651 D652 D653 D654 D655
SD0130000T4	CHIP RES.	1/16W 0 +5% 0603 1	R102 R104 R105 R106 R107 R116 R126 R302 R329 R332 R333 R334 R502 R513 R651
SD013056006	CHIP RES.	1/16W 56 +-5% 0603 S9	R310 R311 R312 R313 R317 R318 R319
SD0131001T6	CHIP RES.	1/16W 1K +-5% 0603 S9	R507 R551
SD0131002T3	CHIP RES.	1/16W 10K +-5% 0603 S9 1	R111 R112 R113 R114 R409 R504 R505 R506 R552 R553 R560 R561 R562 R563 R566 R602 R653
SD013100AT9	CHIP RES.	1/16W 10 +-5% 0603 S9	R511
SD013110001	CHIP RES.	1/16W 110 +-5% 0603	R417
SD013180A09	CHIP RES.	1/16W 18 +-5% 0603	R306 R307 R308 R309 R314 R315 R316
SD0132201T1	CHIP RES.	1/16W 2.2K +-5% 0603 S9	R123 R401 R402 R415 R416 R419 R420 R429 R430
SD013220AT4	CHIP RES.	1/16W 22 +-5% 0603 S9	R503
SD013220B00	CHIP RES.	1/16W 2.2 +-5% 0603	R412 R413
SD013240109	CHIP RES.	1/16W 2.4K +-5% 0603 S9	R403 R404 R405 R406 R414 R421 R422 R423
SD013300004	CHIP RES.	1/16W 300 +-5% 0603 S9	R124 R125
SD013330AT4	CHIP RES.	1/16W 33 +-5% 0603 S9	R304 R305
SD0134701T8	CHIP RES.	1/16W 4.7K +-5% 0603 S9	R331 R558 R559 R564 R565
SD0134702T5	CHIP RES.	1/16W 47K +-5% 0603 S9	R601 R652
SD013510009	CHIP RES.	1/16W 510 +-5% 0603 S9	R554 R555 R556 R557
SD0135601T7	CHIP RES.	1/16W 5.6K +-5% 0603 S9	R407 R408
SD0136800T5	CHIP RES.	1/16W 680 +-5% 0603 S9	R418
SD013750AT3	CHIP RES.	1/16W 75 +-5% 0603 S9	R108 R109 R117 R118 R128 R129
SD014120000	S RES	1/16W 120 +-1% 0603	R410 R411
SD014150100	CHIP RES.	1/16W 1.5K +-1% 0603	R427 R428
SD014330200	CHIP RES.	1/16W 33K +-1% 0603	R425 R426
SD014750A03	CHIP RES.	1/16W 75 +-1% 0603	R120 R121 R122
SD3021000T8	CHIP NETWORK RES	1/16W 100 +-5% 8P-4R SA	RP101 RP102 RP103 RP104 RP105 RP106
SD302330AT3	CHIP NETWORK RES.	1/16W 33 +-5% 8P-4R SA 1	LP601 LP602 LP603 LP604 LP605 LP606 LP607 LP608 LP609 LP610 LP611 LP612 RP301 RP302
SD3024702T4	CHIP NETWORK RES.	1/16W 47K +-5% 8P-4R SA	RP550 RP551
SE004154Z00	S CER CAP	0.15U 16V Z Y5V 0603	C427 C430
SE024100FT1	CHIP CERAMIC CAP.	10P 50V +-1PF NPO 0603 S8	C526 C528 C529 C530 C531
SE024101JT8	CHIP CERAMIC CAP.	100P 50V +-5% NPO 0603 S8	C554
SE024220JT7	CHIP CERAMIC CAP.	22P 50V +-5% NPO 0603 S8	C146 C321 C322
SE025102K12	CHIP CERAMIC CAP.	1000P 50V K X7R 0603 S8	C128 C129 C133 C138 C140 C14 C149
SE025103KT4	CHIP CERAMIC CAP.	.01U 50V +-10% X7R 0603 S8	C539 C556 C557 C558 C559 C560 C561 C562 C566
51 SE025272K07	CHIP CERAMIC CAP.	2700P 50V K X7R 0603 S8	C410 C411
52 SE025822K07	CHIP CERAMIC CAP.	8200P 50V K X7R 0603 S8	C126
53 SE026104K01	CHIP CERAMIC CAP.	.1U 16V K X7R 0603 S8	C102 C105 C107 C124 C127 C130 C131 C132 C134 C135 C137 C141 C144 C145 C147 C148 C150 C151 C152 C302 C305 C306 C307 C308 C309 C310 C311 C312 C314 C315 C316 C317 C318 C319 C320 C405

ELECTRICAL PARTS LIST

PART NUMBER	DESCRIPTION	VALUE	REF NO.
			C408 C409 C412 C413 C414 C415 C418 C434 C502 C505 C506 C507 C508 C509 C510 C511 C513 C515 C516 C517 C518 C519 C520 C522 C533 C534 C535 C536 C537 C538 C541 C550 C555 C652 C653
SE027473NT5	CHIP CERAMIC CAP.	.047U 16V -20+80% Y5V 0603 S8 1	C136 C139 C143 C323 C324 C325 C326 C327 C328 C329 C340 C341 C342 C343 C344
SE044225Z00	S CER CAP	2.2U 16V Z Y5V 0805	C401 C402 C403 C404 C406 C407 C431 C432 C436 C437
SE051823Z00	S CER CAP	0.082U 25V Z Y5V 0603	C125
SF01003M000	CHIP ELE. CAP.	10U 16V M A (4X5.4) 1	C101 C104 C123 C301 C419 C421 C422 C433 C501 C503 C532 C540 C553 C602 C650
SF02203M000	CHIP ELE. CAP.	22U 16V M A (5X5.2)	C103 C106 C416 C435 C601
SF033A6M000	CHIP ELE. CAP.	3.3U 50V M A (4X5.4)	C438 C439
SF04703M000	S ELE CAP	47U 16V M A (5X5.4)	C424 C512 C514 C521
SI102330K00	S ROW CAP	33P 50V K NPO 1206 8P4C P8 1	CP601 CP602 CP603 CP604 CP605 CP60 CP607 CP60 CP609 CP610 CP611 CP612
SM010017500	S SUPPRE	KC FBM-L10-160808-300LMI 1608 1	L107 L108 L109 L110 L304 L305 L514 L515 L517 L650 L651 L652 L656 L657 L658
SM01V000200	S SUPPRE_ STEWARD	HI0805N310R-00 (0805)	L101 L102 L103 L104 L105 L301 L302 L303 L401 L501 L502 L503 L504 L505 L506 L508 L509 L510 L511 L551 L552
SM01V000700	S SUPPRE_ NWE	F32B-332 (1206)	L654
SM01V000800	S SUPPRE_ NWE	F32D-471 (1206)	L655
SM01V001100	S SUPPRE_ KC	FBM-L11-321611-800LMA40T	L403 L404 L601 L603 L653 L659
SM01V001200	S SUPPRE_ MIT	LZA10-2ACA104MT (0603)	L512
SP02H000508	SM WAFER CONN.	HRS DF13-30DP-1.25V 30PIN	CN602
SP02H005800	S W-CONN HRS	DF13-40DP-1.25V 40P P1.25	CN601
SP070001000	SM SOCKET	CEN PLCC-44 H=4.5mm	&U550
454A9130001	PCBA IRKEY/B	VTV-R701 LV171 1A	
434A9130001	SMT IRKEY/B	VTV-R701 LV171	
BC5G2093000	LED L	YG2093 YEL/GRN 3D 3P	D201
BCRIMB38000	IR-R UNIT	RIM-B38 3PIN KINK W/HOLDER	U201
DC03E002750	WAFER E&T	4501-05 5P P2.0 90D	CN201
FCLV1743000	LED HOLDER		LV1743 & LED
434A9130001	SMT IRKEY/B	VTV-R701 LV171	
DA4LV17V310	PCB LV17	VTV-R701 REV1	
SD0131000T9	CHIP RES.	1/16W 100 +-5% 0603 S9	R202
SD0134702T5	CHIP RES.	1/16W 47K +-5% 0603 S9	R201
SE025102K12	CHIP CERAMIC CAP.	1000P 50V K X7R 0603 S8	C201
SE044225Z00	S CER CAP	2.2U 16V Z Y5V 0805	C202
454A9230001	PCBA KEY/B	VTV-K701 LV171 1A	
DA4LV17V210	PCB LV17	VTV-K701 REV1	
DC03E002780	WAFER E&T	4501-08 8P P2.0 90D	CN202
DEB11000009	TACT SWITCH	PM564 KSM0632B	S201 S202 S203 S204 S205 S206 S207


Source Minus Plus Channel Function OSD Power
OSD_S0
OSD_S2
OSD_S3
OSD_S4
OSD_S5
OSD_S6
OSD_S7
S201 KSM0632B
S202 KSM0632B
S203 KSM0632B
S204 KSM0632B
S205 KSM0632B
S206 KSM0632B
S207 KSM0632B
CN202 VT4501-08
OSD_S7
OSD_S6
OSD_S5
OSD_S4
OSD_S3
OSD_S2
OSD_S0
COMPAL ELECTRONIC,INC.
SCHEMATIC, KEY/B VTV-K701,SLV87X
Size A
Document Number 404A92
Rev 1A
Date: Tuesday, April 22, 2003
Sheet 2 of 2

ELECTRICAL PARTS LIST

PART NUMBER	DESCRIPTION	VALUE	REF NO.
461A9230001	FIRMWARE CTRL/B	VTV-L701 LV171	
461A9230002	FIRMWARE CTRL/B	VTV-L701 LV87A PAO	
461A9230012	FIRMWARE CTRL/B	VTV-L701 LV87C GEN	
461A9230021	FIRMWARE CTRL/B	VTV-L701 LV175	
461A9230022	FIRMWARE CTRL/B	VTV-L701 LV175 KOL	
451A9230001	PCBA CTRL/B	VTV-L701 LV171	
451A9230002	PCBA CTRL/B	VTV-L701 LV87 W/128K	
BELV1710000	EDID	EDID LV171CPL-0	
BELV1750000	EDID	EDID LV175CPL-0.DAT	
BELV1750010	EDID	EDID LV175KOL-0.DAT	
BELV87A0000	EDID	EDID LV87APAO-0.DAT	
BELV87C0000	EDID	EDID LV87C2TGEN-0.DAT	
BFLV1700000	FIRMWARE FW	LV171 REV	
BFLV1700010	FIRMWARE FW	LV177 REV	
BFLV1700020	FIRMWARE FW	LV175 REV1	
461A9230023	FIRMWARE	CTRL/B VTV-L701 LV87T SYN	
1 451A9230001	PCBA CTRL/B	VTV-L701 LV171	
2 BELV87T0000	EDID	EDID LV87TSYN-0.DAT	
3 BFLV1700020	FIRMWARE FW	LV175 REV1	
451A9230001	PCBA CTRL/B VTV-L701	LV171 1B	
431A9230001	SMT CTRL/B VTV-L701	LV171	
BD114P3M020	CRYSTAL	14.31818MHZ HC-49/S +-30PPM 20	X501
BD124P57003	CRYSTAL	24.576MHZ HC-49/US +-20PPM 20P	X301
CB100034000	ECE CAP	100U 16V M A P2.0 L4.5 5X11	C303 C304 C313 C420 C423 C425 C429 C504 C651
CB10013M010	ELE CAP	1000U 16V M A P5.0 10X16 L4.5	C417
CB47002M010	ELE CAP	470U 10V M A P3.5 8X12 L4.5	C426 C428
DC020151900	H-CON SET	LV17 MB CON652-CON301	CN301
DC03E002610	WAFER E&T	4500-13 13P P2.0	CN654
DC03E002660	WAFER E&T	4500-05 5P P2.0	CN552
DC03E002680	WAFER E&T	4500-08 8P P2.0	CN550
DC03E002690	WAFER E&T	4500-03 3P P2.0	CN402
DC03E0026A0	WAFER E&T	4500-02 2P P2.0	CN401
DC060015200	D-CONN 15P	FEMALE 1208-15-1V/T ENTERY	CN101
DC060015210	D-CONN 15P	MALE 1221-15-1 R/A ENTERY	CN653
DC230000300	CONN (ST)	SC SCN-570-4P V/T BLK 4PIN	CN651
DC232200000	CONN	SC SCP668BNS230U00 V/T RCA R/W	CN656
DC232300000	CONN	SC SCP668CNS257U00 V/T RCA RBG	CN650
DC232300010	CONN	SC SCP668CNS234U00 V/T RCA RWY	CN655
SA054170000	S IC	BA5417 HSIP15 AUDIO AMP	U403
SA078650000	S IC	W78E65P-40 PLCC-44	U550
431A9230001	SMT	CTRL/B VTV-L701 LV171	
DA4LV17V010	PCB	LV17 VTV-L701 REV1	
SA010840210	SM IC	AIC 1084-33CM TO263 REG 3.3V	U650
SA011170200	S IC	APL1117-25 SOT-223 2.5V	U502
SA011170300	S IC	APL1117-33VC-TR SOT-223 3.3V	U101 U102 U301
SA011170400	SM IC	APL1117-VC SOT-223 ADJ	U402
SA023140000	S IC	PT2314 SOP28 AUDIO DECODER	U401
SA024160008	SM IC	EE 16K SO-8 C	U551
SA024210300	SM IC	EE 128X8 SOP-8 24LC21A	U107
SA067600000	S IC	TP6760 QFP-208 SCALER	U501
SA071180000	S IC	SAA7118E/V1 TBGA-156 VIDEO	U302
SA074140800	S IC	74F14D SOP-14	U105
SA098830100	SM IC	AS9883-140M TQFP-80 ADC 140MHZ	U106
SA099330000	S IC	SI9933 SOP-8	U601 U651
SA816160710	S IC	SD 1M16-7 SS B W981616BH-7 WIN	U503
SB0390400T5	SM TRANSISTOR	MMBT3904 (S0T-23)	Q551 Q552 Q553 Q554 Q601

ELECTRICAL PARTS LIST

PART NUMBER	DESCRIPTION	VALUE	REF NO.
SC10QS042T4	S DIO	EC10QS04	D101 D102
SC4LZ51B0T8	SM ZENER DIODE	RLZ5.1B (LL-34)	ZD101 ZD102 ZD103 ZD104
SC6BAV99000	SM DIODE ARRAY	BAV99(JE) 2P S SOT23 3KV	D103 D104 D105 D650 D651 D652 D653 D654 D655
SD0130000T4	CHIP RES.	1/16W 0 +5% 0603 1	R102 R104 R105 R106 R107 R116 R126 R302 R329 R332 R333 R334 R502 R513 R651
SD013056006	CHIP RES.	1/16W 56 +-5% 0603 S9	R310 R311 R312 R313 R317 R318 R319
SD0131001T6	CHIP RES.	1/16W 1K +-5% 0603 S9	R507 R551
SD0131002T3	CHIP RES.	1/16W 10K +-5% 0603 S9 1	R111 R112 R113 R114 R409 R504 R505 R506 R552 R553 R560 R561 R562 R563 R566 R602 R653
SD013100AT9	CHIP RES.	1/16W 10 +-5% 0603 S9	R511
SD013110001	CHIP RES.	1/16W 110 +-5% 0603	R417
SD013180A09	CHIP RES.	1/16W 18 +-5% 0603	R306 R307 R308 R309 R314 R315 R316
SD0132201T1	CHIP RES.	1/16W 2.2K +-5% 0603 S9	R123 R401 R402 R415 R416 R419 R420 R429 R430
SD013220AT4	CHIP RES.	1/16W 22 +-5% 0603 S9	R503
SD013220B00	CHIP RES.	1/16W 2.2 +-5% 0603	R412 R413
SD013240109	CHIP RES.	1/16W 2.4K +-5% 0603 S9	R403 R404 R405 R406 R414 R421 R422 R423
SD013300004	CHIP RES.	1/16W 300 +-5% 0603 S9	R124 R125
SD013330AT4	CHIP RES.	1/16W 33 +-5% 0603 S9	R304 R305
SD0134701T8	CHIP RES.	1/16W 4.7K +-5% 0603 S9	R331 R558 R559 R564 R565
SD0134702T5	CHIP RES.	1/16W 47K +-5% 0603 S9	R601 R652
SD013510009	CHIP RES.	1/16W 510 +-5% 0603 S9	R554 R555 R556 R557
SD0135601T7	CHIP RES.	1/16W 5.6K +-5% 0603 S9	R407 R408
SD0136800T5	CHIP RES.	1/16W 680 +-5% 0603 S9	R418
SD013750AT3	CHIP RES.	1/16W 75 +-5% 0603 S9	R108 R109 R117 R118 R128 R129
SD014120000	S RES	1/16W 120 +-1% 0603	R410 R411
SD014150100	CHIP RES.	1/16W 1.5K +-1% 0603	R427 R428
SD014330200	CHIP RES.	1/16W 33K +-1% 0603	R425 R426
SD014750A03	CHIP RES.	1/16W 75 +-1% 0603	R120 R121 R122
SD3021000T8	CHIP NETWORK RES	1/16W 100 +-5% 8P-4R SA	RP101 RP102 RP103 RP104 RP105 RP106
SD302330AT3	CHIP NETWORK RES.	1/16W 33 +-5% 8P-4R SA 1	LP601 LP602 LP603 LP604 LP605 LP606 LP607 LP608 LP609 LP610 LP611 LP612 RP301 RP302
SD3024702T4	CHIP NETWORK RES.	1/16W 47K +-5% 8P-4R SA	RP550 RP551
SE004154Z00	S CER CAP	0.15U 16V Z Y5V 0603	C427 C430
SE024100FT1	CHIP CERAMIC CAP.	10P 50V +-1PF NPO 0603 S8	C526 C528 C529 C530 C531
SE024101JT8	CHIP CERAMIC CAP.	100P 50V +-5% NPO 0603 S8	C554
SE024220JT7	CHIP CERAMIC CAP.	22P 50V +-5% NPO 0603 S8	C146 C321 C322
SE025102K12	CHIP CERAMIC CAP.	1000P 50V K X7R 0603 S8	C128 C129 C133 C138 C140 C14 C149
SE025103KT4	CHIP CERAMIC CAP.	.01U 50V +-10% X7R 0603 S8	C539 C556 C557 C558 C559 C560 C561 C562 C566
51 SE025272K07	CHIP CERAMIC CAP.	2700P 50V K X7R 0603 S8	C410 C411
52 SE025822K07	CHIP CERAMIC CAP.	8200P 50V K X7R 0603 S8	C126
53 SE026104K01	CHIP CERAMIC CAP.	.1U 16V K X7R 0603 S8	C102 C105 C107 C124 C127 C130 C131 C132 C134 C135 C137 C141 C144 C145 C147 C148 C150 C151 C152 C302 C305 C306 C307 C308 C309 C310 C311 C312 C314 C315 C316 C317 C318 C319 C320 C405

ELECTRICAL PARTS LIST

PART NUMBER	DESCRIPTION	VALUE	REF NO.
			C408 C409 C412 C413 C414 C415 C418 C434 C502 C505 C506 C507 C508 C509 C510 C511 C513 C515 C516 C517 C518 C519 C520 C522 C533 C534 C535 C536 C537 C538 C541 C550 C555 C652 C653
SE027473NT5	CHIP CERAMIC CAP.	.047U 16V -20+80% Y5V 0603 S8 1	C136 C139 C143 C323 C324 C325 C326 C327 C328 C329 C340 C341 C342 C343 C344
SE044225Z00	S CER CAP	2.2U 16V Z Y5V 0805	C401 C402 C403 C404 C406 C407 C431 C432 C436 C437
SE051823Z00	S CER CAP	0.082U 25V Z Y5V 0603	C125
SF01003M000	CHIP ELE. CAP.	10U 16V M A (4X5.4) 1	C101 C104 C123 C301 C419 C421 C422 C433 C501 C503 C532 C540 C553 C602 C650
SF02203M000	CHIP ELE. CAP.	22U 16V M A (5X5.2)	C103 C106 C416 C435 C601
SF033A6M000	CHIP ELE. CAP.	3.3U 50V M A (4X5.4)	C438 C439
SF04703M000	S ELE CAP	47U 16V M A (5X5.4)	C424 C512 C514 C521
SI102330K00	S ROW CAP	33P 50V K NPO 1206 8P4C P8 1	CP601 CP602 CP603 CP604 CP605 CP60 CP607 CP60 CP609 CP610 CP611 CP612
SM010017500	S SUPPRE	KC FBM-L10-160808-300LMI 1608 1	L107 L108 L109 L110 L304 L305 L514 L515 L517 L650 L651 L652 L656 L657 L658
SM01V000200	S SUPPRE_ STEWARD	HI0805N310R-00 (0805)	L101 L102 L103 L104 L105 L301 L302 L303 L401 L501 L502 L503 L504 L505 L506 L508 L509 L510 L511 L551 L552
SM01V000700	S SUPPRE_ NWE	F32B-332 (1206)	L654
SM01V000800	S SUPPRE_ NWE	F32D-471 (1206)	L655
SM01V001100	S SUPPRE_ KC	FBM-L11-321611-800LMA40T	L403 L404 L601 L603 L653 L659
SM01V001200	S SUPPRE_ MIT	LZA10-2ACA104MT (0603)	L512
SP02H000508	SM WAFER CONN.	HRS DF13-30DP-1.25V 30PIN	CN602
SP02H005800	S W-CONN HRS	DF13-40DP-1.25V 40P P1.25	CN601
SP070001000	SM SOCKET	CEN PLCC-44 H=4.5mm	&U550
454A9130001	PCBA IRKEY/B	VTV-R701 LV171 1A	
434A9130001	SMT IRKEY/B	VTV-R701 LV171	
BC5G2093000	LED L	YG2093 YEL/GRN 3D 3P	D201
BCRIMB38000	IR-R UNIT	RIM-B38 3PIN KINK W/HOLDER	U201
DC03E002750	WAFER E&T	4501-05 5P P2.0 90D	CN201
FCLV1743000	LED HOLDER		LV1743 & LED
434A9130001	SMT IRKEY/B	VTV-R701 LV171	
DA4LV17V310	PCB LV17	VTV-R701 REV1	
SD0131000T9	CHIP RES.	1/16W 100 +-5% 0603 S9	R202
SD0134702T5	CHIP RES.	1/16W 47K +-5% 0603 S9	R201
SE025102K12	CHIP CERAMIC CAP.	1000P 50V K X7R 0603 S8	C201
SE044225Z00	S CER CAP	2.2U 16V Z Y5V 0805	C202
454A9230001	PCBA KEY/B	VTV-K701 LV171 1A	
DA4LV17V210	PCB LV17	VTV-K701 REV1	
DC03E002780	WAFER E&T	4501-08 8P P2.0 90D	CN202
DEB11000009	TACT SWITCH	PM564 KSM0632B	S201 S202 S203 S204 S205 S206 S207